ASHRAE MONITOR

Next Meeting – Thursday, September 8th
JOINT ASHRAE / ASPE MEETING
Lunch and networking starts 11:30 a.m.
Technical Session starts at noon.
Please join us.

Topic: Steam 101
Steve Cooper - Carotek, Inc.
$20.00 members, $25.00 non-members

Location: Clark Nexsen – 4525 Main Street Virginia Beach, VA 23462
Season passes available on the chapter website. Get nine lectures for the price of six.

RSVP for lectures or purchase season pass

ASHRAE Mission Statement

“To advance the arts and sciences of heating, ventilation, air conditioning and refrigerating to serve humanity and promote a sustainable world.”

Upcoming Events

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 8&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Joint ASPE/ASHRAE Lecture</td>
</tr>
<tr>
<td>September 15&lt;sup&gt;th&lt;/sup&gt;</td>
<td>YEA Happy Hour</td>
</tr>
<tr>
<td>September 28&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Energy for Kids Fundraiser</td>
</tr>
<tr>
<td>October 4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Building EQ Energy Labeling</td>
</tr>
</tbody>
</table>

Technical Lecture Program

The 2016-2017 lecture program includes several great topics and distinguished speakers.

E4K = Energy for Kids

Tickets for the 9<sup>th</sup> annual E4K = Energy for Kids charity fundraising event are available now!

CRC Recap

Chapter’s Regional Conference (CRC) was held August 18-20 in Philadelphia.

Annual Sponsor Flyer

New program for sponsoring the HR Chapter’s annual program, maximizing tax deductions.
Chapter’s Regional Conference

We started the 2016-2017 ASHRAE year with a very successful CRC in Philadelphia. The CRC was held in August to encourage members to bring their families. The Philadelphia Chapter arranged a host of fun social events and outings for attendees and their families. Mark your calendars now for the 2017 CRC in Roanoke.

The CRC is where our chapter has the opportunity to vote on regional and society officers. Leadership from each chapter in the region meets with regional officers to share ideas, discuss challenges and recognize accomplishments. One of our best success stories every year is the Energy for Kids event and sustainability project. We also received an award for reaching our research promotion goals last year.

*If you’re interested in what’s going on in ASHRAE Region III, visit their website for a listing of chapters with links to chapter websites and information on regional officers.*

Edmarc E4K Project

The 2014 E4K proceeds benefited the Edmarc Hospice for Children in Portsmouth. Here is Edmarc Director Debbie Stitzer-Brame’s message and a photo of some of the dedicated professionals who made this project happen.

“This year, the Hampton Roads Chapter of International Facility Management Association (IFMA) and the American Society of Heating, Refrigeration and Air Conditioning (ASHRAE) has adopted Edmarc as their charity! Today, they are performing duct leakage testing and will return over the next few weeks to make efficiency improvements to our systems; which will help Edmarc save money! We are eternally grateful to all the fine folks of IFMA and ASHRAE! Continue to follow us to see the progress!”
YEA Kickoff

Hello YEA members!

I hope everyone’s summer has been awesome so far! To kickoff this upcoming Hampton Roads Chapter year, we will be having a YEA Happy Hour. To our new members who may not be aware of what YEA is, YEA stands for “Young Engineers in ASHRAE” and consists of all ASHRAE members 35 and under. We will be having this event on Thursday September 15th, starting at 5pm, and it will be located at Gordon Biersch in Town Center, Virginia Beach.

I highly encourage everyone to come join us and mingle with other YEA members throughout Hampton Roads and I will also talk, briefly, about our upcoming schedule for the year.

Please RSVP to me by Tuesday September 13th if you plan on attending. If you have any questions, do not hesitate to reach out to me either.

Thanks and see everyone soon!

Regards,

RJ Hartman
HRC ASHRAE President-Elect
HRC ASHRAE YEA Chair

Committee Participation Is Needed and Welcomed

If you have an interest in being involved with the chapter, we welcome members to serve in various ways.

There are currently open positions for Chapter Historian and Grassroots Government Activities Chair.

Please feel free to contact any of the board members or email ashraehrc@gmail.com for more information. It is a great way to plug in to your local community of peers and grow personally and professionally. For those of you who have served before, we welcome your participation also!

August Newsletter Corrections…

The E4K = Energy for Kids charity for 2016 will benefit the William A. Hunton YMCA. The Wesley Community Center will be considered for next year.

Page four of the August newsletter listed four companies who sponsored the 2016 Golf Tournament. The title was cut off. Thanks to Pond & Co, Burns McDonnell, Waltz Engineered Sales, and Hobbs and Associates for sponsoring the event.
2016 Technical Program

ASHRAE Hampton Roads Chapter is pleased to present the 2016 technical schedule. At each meeting please join us for a meal, fellowship, and exciting topics from top experts in the HVAC&R industry. Our monthly meetings are a cost effective way to stay current with industry trends and meet continuing education requirements. Meeting dues goes a long way to cover not only our meeting costs but ASHRAE research and funding scholarships, such as our chapter endowment to Old Dominion University. Lastly, please consider our Seasons Pass, available on our website, which helps us plan for the year and offers a tremendous value; the sooner you purchase the pass the better the value.

Tuesday, October 4th 2016 - “The Value of ASHRAE bEQ”
Tom Phoenix, Principle with Moser Mayer Phoenix Associates and ASHRAE Distinguished Lecturer will present on ASHRAE's Building Energy Quotient (bEQ) program. This program will present an update and overview of the bEQ program; the presentation focuses on bEQ's use as a powerful tool to identify ways to assess building energy use and improve the building's performance. This will be a joint meeting with Old Dominion University's ASHRAE Student Chapter.
Old Dominion University - 5115 Hampton Blvd, Norfolk, VA
Engineer & Computational Sciences Building

Tom Watson with Daiken Applied and ASHRAE Society Past President will present on ASHRAE's Standard 188-2015. The presentation will cover the history of Legionnaires Disease, Basics of AHSI/ASHRAE 188-2015, and water management fundamentals.
ITT Technical Institute – 5425 Robin Hood Rd, Norfolk, VA

Tuesday, December 6th 2016 - “Prevent Chiller Efficiency Losses with Online Tube Cleaning Systems.”
Mike Richardson with Robert W. Hayes and Company will present on chiller fouling and how to continually maintain optimal chiller efficiency, and system capacity through the use of on-line tube cleaning systems.
ITT Technical Institute – 5425 Robin Hood Rd, Norfolk, VA

Reservations and Full 2016-2017 Schedule:
HTTP://HAMPTONROADS.ASHRAECHAPTERS.ORG/RESERVATION.HTML or HRCASHRAE@gmail.com

Meeting Dues:
Members $20
Non- Members $25
Student Members $10
**Seasons Pass (9 PDH’s) $120

**No refund for missed meetings & must be present to receive PDH.

Be sure to check our website regularly for meeting updates, cancellations, and special events. We look forward to seeing you throughout this 2016-2017 season.

Best Regards,
Christian Guerra
2016-2017 Vice President & CTT Chair
Join us for an evening of BBQ, Oysters, Beer, music and more...all for a good cause!

All Profits will be donated to the William A. Hunton YMCA and are designated for Energy Improvements to their HVAC system.

<table>
<thead>
<tr>
<th>Tickets</th>
<th>Includes</th>
<th>Price</th>
<th>Choice</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIP Table</td>
<td>8 Tickets and Reserved Table Table/Poster Signage</td>
<td>$500</td>
<td>______</td>
</tr>
<tr>
<td>Group Sponsor</td>
<td>5 or more tickets</td>
<td>$30 each</td>
<td>______</td>
</tr>
<tr>
<td>Individual Ticket</td>
<td>Ticket to the event</td>
<td>$35 each</td>
<td>______</td>
</tr>
</tbody>
</table>

Sponsorships are available through the annual sponsorship program. Details available at the link below. [http://hamptonroads.ashraechapters.org/sponsors.html](http://hamptonroads.ashraechapters.org/sponsors.html)

Free parking is included with ticket. Parking information will be distributed to ticket holders prior to the event.

Payment Method: [Invoice] [Check] [Credit Card @ http://www.hamptonroads.ashraechapters.org/E4K.html](http://www.hamptonroads.ashraechapters.org/E4K.html)

Company: ____________________________ Address: ____________________________
Contact Name: ______________________ Phone: ____________________________
Fax: ____________________________ E-mail: ____________________________

ASHRAE: Complete and return to Brian Derby
Make check payable to ASHRAE HRC
6506 Hampton Blvd
Norfolk, VA 23508
Fax 757-322-4142
Questions: 757-322-4245 or e-mail: ashraehrc@gmail.com

IFMA: Complete and return to IFMA Hampton Roads
PO Box 68639 Virginia Beach, VA 23471
FAX: 757-497-1895
Questions: 757-508-6232

*DEADLINE For Signage– September 23, 2016*
ASHRAE’s HVAC Design Training

HVAC Design: Level I—Essentials

ASHRAE’s HVAC Design: Level I — Essentials provides intensive, practical training for HVAC designers and others involved in the delivery of HVAC services. In three days, gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use.

- Fundamentals
- Heating/Cooling Load Calculation
- System Selections
- HVAC System and Components
- Cooling System
- Basic Design of Hydronic Systems
- Basic Design of Air Systems
- Control/BAS

HVAC Design: Level I—Essentials

When: October 3-5, 2016 | Baltimore, MD
Cost: $1,264 (ASHRAE Member: $1,009)
Company Discount: Enroll 3 or more participants from the same company at the same time and SAVE!

BONUS!

HVAC Design: Level II—Applications

ASHRAE’s HVAC Design: Level II — Applications provides instruction on HVAC system designs for experienced HVAC designers and those who complete the HVAC Design: Level I — Essentials training. In two days, gain an in-depth look into Standards 55, 62.1, 90.1, 189.1 and the Advanced Energy Design Guides. Training will focus on a range of topics including: HVAC equipment and systems, energy modeling, designing a chiller plant, and BAS controls.

- Sustainability / Green/LEED / HPB / NZEB
- Standard 55
- Standard 62.1
- Building Systems: Education Facility
- System Applications: Chiller/Boiler, Air Handlers, VAV Terminals
- Life Cycle Cost
- Building Systems: Multi-story Office Building
- Water-to-Water GSHP Option 1
- Chilled Beam with DOAS
- Water-to-Water GSHP Option 2
- UFAD

HVAC Design: Level II—Applications

When: October 6-7, 2016 | Baltimore, MD
Cost: $854 (ASHRAE Member: $699)
Company Discount: Enroll 3 or more participants from the same company at the same time and SAVE!

BONUS!
A $100 Value!
IAQ 2016 Defining Indoor Air Quality: Policy, Standards and Best Practices

September 12-14, 2016 · Alexandria, VA

The conference, co-organized by ASHRAE and AIVC, takes place Sept. 12-14, 2016, in Alexandria, Va., at the Crowne Plaza Old Town Alexandria.

Participants in the conference will be researchers, experts, policy makers, building owners and operators, engineers, designers, IAQ professionals, commissioning agents, architects and other participants interested in what works and what really doesn’t work when tackling major improvements in indoor air quality.

The keynote speakers are:

- Chris Pyke, U.S. Green Building Council
- Howard Wolf, HW3 Group (IICRC)
- Pawel Wargocki, Technical University of Denmark
- David Jacobs, National Center for Healthy Housing
- David Rowson, U.S. Environmental Protection Agency

The Early Bird Registration rates of $550 for ASHRAE members and $600 for non-members, are available through Aug. 18. For more information and to register, visit www.ashrae.org/IAQ2016.

Through its scholarships, ASHRAE seeks to motivate students worldwide to pursue an engineering or technology career in the HVAC&R field. The Society's Scholarship Program also serves the public interest by aiding in the education of men and women to become qualified to practice as engineers in HVAC&R.

ASHRAE has 33 scholarships available for the 2017–18 school year, for high school seniors entering college through senior undergraduate engineering students and engineering technology students. ASHRAE is seeking your assistance in making students aware of this financial assistance.

- 11 regional/chapter and university-specific scholarships - $3,000 to $5,000 each. Now accepting applications!
- 13 undergraduate engineering scholarships - $3,000 to $10,000 each. Now accepting applications!
- 1 freshman engineering scholarship - $5,000
- 4 high school senior scholarships - $3,000 each
- 4 engineering technology scholarships - $5,000 each

Qualified students are encouraged to apply at www.ashrae.org/scholarships.
New!
Annual Sponsorship Packages

Hampton Roads ASHRAE Chapter is happy to present our new one-time sponsorship program for the upcoming 2016-2017 year!

<table>
<thead>
<tr>
<th>Presidential - $3,500</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eight E4K tickets</td>
<td></td>
</tr>
<tr>
<td>One Golf tournament foursome</td>
<td></td>
</tr>
<tr>
<td>Four season passes</td>
<td></td>
</tr>
<tr>
<td>Large ad/company call out in chapter newsletter</td>
<td></td>
</tr>
<tr>
<td>Large ad/company call out on event banners</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gold - $2,500</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Four E4K tickets</td>
<td></td>
</tr>
<tr>
<td>One golf tournament foursome</td>
<td></td>
</tr>
<tr>
<td>Two season passes.</td>
<td></td>
</tr>
<tr>
<td>Medium ad/company call out in chapter newsletter</td>
<td></td>
</tr>
<tr>
<td>Medium ad/company call out on event banners</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Silver - $1,500</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Four E4K tickets</td>
<td></td>
</tr>
<tr>
<td>Two season passes</td>
<td></td>
</tr>
<tr>
<td>Small ad/company call out in chapter newsletter</td>
<td></td>
</tr>
<tr>
<td>Small ad/company call out on event banners</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chapter - $500</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Two E4K tickets</td>
<td></td>
</tr>
<tr>
<td>One season pass</td>
<td></td>
</tr>
<tr>
<td>Name recognition in chapter newsletter</td>
<td></td>
</tr>
<tr>
<td>Name recognition on event banners.</td>
<td></td>
</tr>
</tbody>
</table>

Sponsorship sign up is available on our website at [http://hamptonroads.ashraechapters.org/sponsors.html](http://hamptonroads.ashraechapters.org/sponsors.html)

Packages above are customizable based on sponsor needs. Please send special requests to ashraehrc@gmail.com

For Payment by Check:
6506 Hampton Blvd
Norfolk, VA 23508
ATTN: Adam Forshey